

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM417351

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
BioDelivery Sciences International, Inc.		02/21/2017	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	CRG SERVICING LLC, as Administrative Agent		
Street Address:	1000 Main street, suite 2500		
City:	Houston		
State/Country:	TEXAS		
Postal Code:	77002		
Entity Type:	Limited Liability Company: DELAWARE		
PROPERTY NUMBERS Total: 9			
Property Type	Number	Word Mark	
Registration Number:	4946787	BELBUCA	
Registration Number:	3527341	BDSI	
Registration Number:	3623813	BEMA	
Registration Number:	3473621	BEMA	
Registration Number:	4761530	BIODELIVERY SCIENCES	
Registration Number:	4629312	BUNAVAIL	
Registration Number:	4757448		
Registration Number:	3723904	ONSOLIS	
Registration Number:	3803937		
CORRESPONDENCE DATA			
Fax Number:	4156932222		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	4156932000		
Email:	crhem@cooley.com		
Correspondent Name:	Cooley LLP		
Address Line 1:	101 California Street, 5th floor		
Address Line 4:	san Francisco, CALIFORNIA 94111		
ATTORNEY DOCKET NUMBER:	321831-126		

CH \$240.00 4946787

NAME OF SUBMITTER:	C. Rhem
SIGNATURE:	/CR/
DATE SIGNED:	02/24/2017

Total Attachments: 20

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PATENT AND TRADEMARK SECURITY AGREEMENT

WHEREAS, BioDelivery Sciences International, Inc., a Delaware corporation (“**Grantor**”), is party to that certain Security Agreement, dated as of February 21, 2017 (as amended, restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”; capitalized terms used herein without definition shall have the meanings set forth in the Security Agreement), among Grantor, the Subsidiary Guarantors party thereto and CRG SERVICING LLC, as administrative agent and collateral agent (in such capacities, together with its successors and assigns, the “**Administrative Agent**”), pursuant to which Grantor has granted in favor of Secured Parties a lien on all of its personal property, including without limitation the patents and patent applications listed on **Schedule A** hereto, and the trademarks and trademark applications listed on the **Schedule B** hereto; and

WHEREAS, Grantor is a party to that certain Term Loan Agreement, dated as of February 21, 2017 (as amended, restated, supplemented or otherwise modified from time to time), among the Subsidiary Guarantors, certain lenders, and Administrative Agent;

WHEREAS, it is a condition to the advance of the loans and other obligations secured by the Security Agreement, that Grantor execute and deliver this Patent and Trademark Security Agreement for recording with the United States Patent and Trademark Office;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

As collateral security for the payment in full when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations, Grantor hereby pledges and grants to the Administrative Agent for the benefit of the Secured Parties a security interest in all of Grantor’s right, title and interest in, to and under all of the following, as collateral security for the prompt and complete payment and performance when due of all the Secured Obligations (as defined in the Security Agreement):

(i) all patents and patent applications, in each case whether now owned by Grantor or hereafter acquired and whether now existing or hereafter coming into existence, including without limitation those listed on **Schedule A** hereto, and all related patents and applications thereto, including all reissuances, continuations, continuations-in-part, revisions, extensions, re-examinations thereof, any patents and patent applications claiming priority to said patents and patent applications or from which said patents and patent applications claim priority, and pending applications associated therewith; and

(ii) all of the trademarks, whether now owned or at any time hereafter acquired, of Grantor that are registered with, or for which applications for registration have been filed with, the United States Patent and Trademark Office, including the trademarks listed on **Schedule B** hereto, and all registrations and pending applications associated therewith (excluding only any United States application for registration of a trademark filed on an intent-to-use basis, and solely to the extent that and during the period in which the grant, attachment or enforcement of a security interest in any such trademark application would, under applicable federal law, impair the registrability of such applications or impair the validity or enforceability

of the resulting trademark registrations issuing from such applications or result in cancellation of any such trademark registrations).

Notwithstanding the foregoing, in the event of any conflict between this Patent and Trademark Security Agreement and the Security Agreement, the Security Agreement shall control.

Each Grantor authorizes the Commissioner for Patents, Commissioner for Trademarks, and any other government officials to record and register this Patent and Trademark Security Agreement upon request by the Administrative Agent or any of the Secured Parties.

This Patent and Trademark Security Agreement and the rights and obligations of the parties hereunder shall be governed by, and construed in accordance with, the law of the State of New York, without regard to principles of conflicts of laws that would result in the application of the laws of any other jurisdiction; provided that Section 5-1401 of the New York General Obligations Law shall apply.

[signature to follow]

IN WITNESS WHEREOF, Grantor has caused this Patent and Trademark Security Agreement to be duly executed and delivered as of the day and year first above written.

BIODELIVERY SCIENCES INTERNATIONAL,
INC., as Grantor

By


Name: Mark A. Sirgo

Title: Vice Chairman, President and Chief
Executive Officer

Date:

[Signature Page to Patent and Trademark Security Agreement]

TRADEMARK
REEL: 005996 FRAME: 0198

SCHEDULE A
PATENTS AND PATENT APPLICATIONS

Application Title	Territory	Date of Filing	App Number	Status/Issue Date	Patent No.	Ref. No.	Owner
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	US	12/13/2005	60/750191			117744-07601	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	US	2/2/2006	60/764619			117744-07602	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	US	12/13/2006	9522188			117744-07603	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	WO	12/13/2006	PCT/US2006/047686			117744-07620	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	AU	12/13/2006	2006326377	1/20/2011	2006326377	117744-07621	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	BR	6/13/2008	PI0619806-6			117744-07622	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	CA	5/7/2008	2629046	4/8/2014	2629046	117744-07623	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	CN	6/12/2008	20068004678 1.1	7/8/2015	ZL200680046781.1	117744-07624	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	DZ	7/9/2008	080437	11/8/2010	5965	117744-07625	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	EP	7/10/2008	06845401.6			117744-07626	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	IN	7/11/2008	3593/CHENP/2008			117744-07627	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	JP	6/12/2008	2008-545803	8/1/2014	5586151	117744-07628	BDSI
ABUSE RESISTANT TRANSMUCOSAL DRUG DELIVERY DEVICE	MO	10/6/2015	J/001896	1/27/2016	J/001896	117744-07629	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	7/21/2006	60/832725			117744-08801	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	8/23/2006	60/839504			117744-08802	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	7/15/2011	13/184306	4/3/2012	8147866	117744-08804	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	6/22/2015	14/746168			117744-08807	BDSI

UPTAKE							
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	7/18/2016	15/212912			117744-08809	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	AT	2/16/2009	07796992.1	4/6/2016	2054031	117744-08814	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	PL	2/16/2009	07796992.1	4/6/2016	2054031	117744-08816	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	HU	2/16/2009	07796992.1	4/6/2016	2054031	117744-08817	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	CY	2/16/2009	07796992.1	4/6/2016	2054031	117744-08818	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	WO	7/23/2007	PCT/US2007/ 016634			117744-08820	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	AE	1/21/2009	58/2009			117744-08821	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	AU	1/16/2009	2007275581	12/22/2011	20072755 81	117744-08822	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	BY	2/20/2009	a20090245	6/18/2014	18602	117744-08824	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	CN	2/26/2009	20078003190 8.7	12/11/2013	20078003 1908.7	117744-08826	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	EP	2/16/2009	07796992.1	4/6/2016	2054031	117744-08827	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	HR		NEW APPLICATION			117744-08828	BDSI
BUPRENORPHINE FOR USE IN THE PREPARATION OF A PHARMACEUTICAL COMPOSITION FOR PROVIDING ENHANCED UPTAKE OF BUPRENORPHINE AND A MUCOADHESIVE BIOERODABLE DRUG DELIVERY DEVICE BASED THEREON	IL	1/15/2009	196529	2/1/2014	196529	117744-08829	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	IN	2/18/2009	925/CHENP/2 009			117744-08830	BDSI

TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	KR	2/20/2009	10-2009-7003532	1/31/2013	1230804	117744-08832	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	UA	2/20/2009	a200901454	11/10/2011	96455	117744-08838	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	ZA	1/21/2009	2009/00485	8/31/2011	2009/00485	117744-08839	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	HK	10/30/2009	09110161.3	4/17/2014	1131344B	117744-08840	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	MK	2/16/2009	07796992.1	4/6/2016	2054031	117744-08844	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	MT	2/16/2009	07796992.1	4/6/2016	2054031	117744-08845	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	HK					117744-08846	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	RO	2/16/2009	07796992.1	4/6/2016	2054031	117744-08847	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	RS	2/16/2009	07796992.1	4/6/2016	2054031	117744-08849	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	MO	7/8/2016	J/002253			117744-08850	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	SI	2/16/2009	07796992.1	4/6/2016	2054031	117744-08852	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	SK	2/16/2009	07796992.1	4/6/2016	2054031	117744-08853	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	TR	2/16/2009	07796992.1	4/6/2016	2054031	117744-08855	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	LV	2/16/2009	07796992.1	4/6/2016	2054031	117744-08856	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	PT	2/16/2009	07796992.1	4/6/2016	2054031	117744-08857	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	MC	2/16/2009	07796992.1	4/6/2016	2054031	117744-08858	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	HR	2/16/2009	07796992.1	4/6/2016	2054031	117744-08862	BDSI

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TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	CZ	2/16/2009	07796992.1	4/6/2016	2054031	117744-08871	BDSI
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TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	LT	2/16/2009	07796992.1	4/6/2016	2054031	117744-08875	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	BY	10/28/2011	a20111429			117744-08879	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	JP	4/9/2013	2013-081427	2/6/2015	5689144	117744-08882	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	MO	3/5/2014	J/001352	5/26/2014	J/001352	117744-08885	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	CH	2/16/2009	07796992.1	4/6/2016	2054031	117744-08887	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	ES	2/16/2009	07796992.1	4/6/2016	2054031	117744-08888	BDSI
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TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	IT	2/16/2009	07796992.1	4/6/2016	2054031	117744-08890	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	LU	2/16/2009	07796992.1	4/6/2016	2054031	117744-08891	BDSI

TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	GR	2/16/2009	07796992.1	4/6/2016	2054031	117744-08892	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	NL	2/16/2009	07796992.1	4/6/2016	2054031	117744-08893	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	IS	2/16/2009	07796992.1	4/6/2016	2054031	117744-08894	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	DE	2/16/2009	07796992.1	4/6/2016	60200704 5673.8	117744-08895	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	FI	2/16/2009	07796992.1	4/6/2016	2054031	117744-08896	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	BE	2/16/2009	07796992.1	4/6/2016	2054031	117744-08897	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	SE	2/16/2009	07796992.1	4/6/2016	2054031	117744-08898	BDSI
TRANSMUCOSAL DELIVERY DEVICES WITH ENHANCED UPTAKE	US	7/21/2006	60/832726			117744-08901	BDSI
PROCESS FOR LOADING A DRUG DELIVERY DEVICE	WO	4/11/2003	PCT/US03/11 313			117744-09420	BDSI
PROCESS FOR LOADING A DRUG DELIVERY DEVICE	AU	4/11/2003	2003226353			117744-09421	BDSI
BIOERODIBLE FILM FOR DELIVERY OF PHARMACEUTICAL COMPOUNDS TO MUCOSAL SURFACES	US	1/22/2003	60/441829			117744-09501	BDSI
BIOERODIBLE FILM FOR DELIVERY OF PHARMACEUTICAL COMPOUNDS TO MUCOSAL SURFACES	US	1/22/2004	10/763063			117744-09502	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	US	6/23/2008	61/074918			117744-11401	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	US	2/3/2011	12/996101			117744-11402	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	US	5/18/2016	15/157497			117744-11404	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY	WO	6/23/2009	PCT/US2009/ 048325			117744-11420	BDSI

DEVICES AND METHODS OF USE							
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	BR	12/23/2010	PI0915386-1			117744-11425	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	CA	12/21/2010	2728912			117744-11426	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	EP	1/18/2011	09798502.2			117744-11435	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	HK	9/15/2011	11109734.9			117744-11439	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	IN	11/24/2010	8353/DELNP/2010			117744-11440	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	AU	6/4/2015	2015203167			117744-11476	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	CN	4/8/2016	20161021822 1.5			117744-11478	BDSI
MULTIDIRECTIONAL MUCOSAL DELIVERY DEVICES AND METHODS OF USE	JP	11/4/2016	2016-215881			117744-11480	BDSI
MANUFACTURE OF TRANSDERMAL PATCHES	US		NEW APPLICATION			117744-11501	BDSI
ENCOCHLEATION OF siRNAs WITH COVALENTLY ATTACHED LIPID TAILS	US	10/29/2008	61/109450			117744-12201	BDSI
ENCOCHLEATION OF siRNAs WITH COVALENTLY ATTACHED LIPID TAILS	US	10/28/2009	61/255746			117744-12202	BDSI
COCHLEATE COMPOSITIONS AND METHODS OF USE	US	2/3/2009	61/149646			117744-12301	BDSI
COCHLEATE COMPOSITIONS AND METHODS OF USE	WO	2/3/2010	PCT/US2010/023059			117744-12320	BDSI
BIOERODABLE MUCOADHESIVE DEVICES AND METHODS FOR PROVIDING A SYSTEM OF	US	2/27/2009	61/156420			117744-12501	BDSI

CARE FOR THE SAME							
TRANSMUCOSAL BUPRENORPHINE DELIVERY DEVICES AND METHODS FOR TREATMENT USING THE SAME	US	4/1/2009	61/165830			117744-12601	BDSI
METHODS FOR DELIVERY OF BUPRENORPHINE	WO	4/1/2010	PCT/US2010/029669			117744-12620	BDSI
PHARMACEUTICAL CARRIER DEVICES SUITABLE FOR DELIVERY OF PHARMACEUTICAL COMPOUNDS TO MUCOSAL SURFACES	US	12/16/2009	61/287154			117744-12701	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	US	12/21/2011	61/578755			117744-12801	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	US	12/21/2012	13/724959			117744-12802	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	WO	12/21/2012	PCT/US2012/071330			117744-12820	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	AU	7/7/2014	2012358308			117744-12824	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	BR	6/20/2014	BR112014015329-9			117744-12825	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	CA	6/18/2014	2859859			117744-12826	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	CN	8/21/2014	201280070389.6			117744-12828	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	EA	6/25/2014	201491046			117744-12834	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	EP	7/2/2014	12860757.9			117744-12835	BDSI

TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	HK	4/22/2015	15103881.9			117744-12839	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	IN	7/21/2014	6117/DELNP/2014			117744-12840	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	IL	6/11/2014	233075			117744-12842	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	JP	6/19/2014	2014-548962			117744-12843	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	KR	7/18/2014	10-2014-7020237			117744-12846	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	MX	6/18/2014	MX/a/2014/007350			117744-12848	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	NZ	7/7/2014	627145			117744-12851	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	NZ	10/6/2016	724912			117744-12852	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	SG	6/10/2014	11201403075 X			117744-12860	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	ZA	6/23/2014	2014/04583			117744-12861	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	UA	6/17/2014	a201406826			117744-12866	BDSI
TRANSMUCOSAL DRUG DELIVERY DEVICES FOR USE IN CHRONIC PAIN RELIEF	AE	6/19/2014	663/2014			117744-12867	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	US	8/18/2011	61/525094			117744-12901	BDSI

ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	US	8/20/2012	13/590094	4/22/2014	8703177	117744-12902	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	US	7/18/2016	15/213051			117744-12907	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	US	7/18/2016	15/213137			117744-12908	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	WO	8/20/2012	PCT/US2012/051618			117744-12920	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	AU	3/18/2014	2012296346			117744-12924	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	BR	2/17/2014	BR112014003651-9			117744-12925	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	CA	2/17/2014	2845634			117744-12926	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	CN	4/17/2014	201280051202.8			117744-12928	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	EA	3/4/2014	201490425			117744-12934	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	EP	3/10/2014	12823941.5			117744-12935	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	HK	12/11/2014	14112453.9			117744-12939	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	IL	2/16/2014	230996			117744-12942	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	JP	2/18/2014	2014-526274			117744-12943	BDSI

ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	KR	3/17/2014	10-2014-7007036			117744-12946	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	MX	2/17/2014	MX/a/2014/001873			117744-12948	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	NZ	3/18/2014	622610	8/30/2016	622610	117744-12951	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	SG	2/18/2014	11201401446 R			117744-12960	BDSI
ABUSE-RESISTANT MUCOADHESIVE DEVICES FOR DELIVERY OF BUPRENORPHINE	ZA	2/21/2014	2014/01368			117744-12961	BDSI
MUCOADHESIVE DEVICES FOR TREATMENT OF PAIN AND OPIOID DEPENDENCE	US	3/7/2013	61/774261			117744-13101	BDSI
MUCOADHESIVE DEVICES FOR TREATMENT OF PAIN AND OPIOID DEPENDENCE	US	3/15/2013	61/800962			117744-13102	BDSI
Methods and Apparatus for Forming Pharmaceutical Agent Delivery Patch Devices	US	11/25/2014	62/084,293			1240-2PR	BDSI
Patch Devices, Methods and Apparatus for Forming, and Testing Pharmaceutical Agent Delivery Patch Devices	US	11/25/2015	14/951,647			1240-2	BDSI
Patch Devices, Methods and Apparatus for Forming, and Testing Pharmaceutical Agent Delivery Patch Devices	PCT	11/25/2015	PCT/US2015/062601			1240-2WO	BDSI
Methods and Apparatus for Performing Dissolution Testing of Patch Devices	US	12/15/2014	62/092,087			1240-5PR	BDSI
SUBLINGUAL FORMULATIONS FOR NON-POLAR DRUGS	US	5/2/2016	62/330,432			1240-7PR2	BDSI
METHODS OF SAFELY TRANSITIONING A SUBJECT TO BUPRENORPHINE	US	9/9/2015	62/216,251			1240-9PR	BDSI
METHODS OF SAFELY TRANSITIONING A SUBJECT TO BUPRENORPHINE	US	9/9/2016	15/260,980			1240-9	BDSI

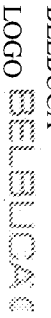

Sustained Release Buprenorphine Microspheres (SRBM) and Methods of Use Thereof	US	2/23/2016	62/298,777			1240-10PR	BDSI
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SCHEDULE B
TRADEMARKS AND TRADEMARK APPLICATIONS

[See attached]

1. BDSI Schedule of Trademarks February 2017 pdf (attached).
2. Belbuca TMs Jan 2017 pdf (attached).

Exhibit A
Product Marks

TRADEMARK	COUNTRY	STATUS	APPLN NO.	APPLN DATE	REG. NO.	REG. DATE	OWNER
BELBUCA	BRAZIL	PENDING	908340753	9/24/2014			ENDO PHARMACEUTICALS INC.
BELBUCA	CANADA	ALLOWED	1694096	9/16/2014			ENDO PHARMACEUTICALS INC.
BELBUCA	EUROPEAN UNION	REGISTERED	A0045067	9/16/2014	1228983	9/16/2014	ENDO PHARMACEUTICALS INC.
BELBUCA	MEXICO	REGISTERED	A0045067	9/16/2014	1228983	9/16/2014	ENDO PHARMACEUTICALS INC.
BELBUCA	NORWAY	REGISTERED	A0045067	9/16/2014	1228983	9/16/2014	ENDO PHARMACEUTICALS INC.
BELBUCA	SOUTH AFRICA	PUBLISHED	201425362	9/18/2014			ENDO PHARMACEUTICALS INC.
BELBUCA	SWITZERLAND	REGISTERED	A0045067	9/16/2014	1228983	9/16/2014	ENDO PHARMACEUTICALS INC.
BELBUCA	UNITED STATES	REGISTERED	86235385	3/28/2014	4946787	4/26/2016	ENDO PHARMACEUTICALS INC.
BELBUCA	WIPO	REGISTERED	A0045067	9/16/2014	1228983	9/16/2014	ENDO PHARMACEUTICALS INC.
BELBUCA LOGO 		UNFILED					ENDO PHARMACEUTICALS INC., to the extent it owns any rights in the mark, through common law or otherwise.
Two-overlapping square logo 		UNFILED					ENDO PHARMACEUTICALS INC., to the extent it owns any rights in the mark, through common law or otherwise.
Life on Film		UNFILED					ENDO PHARMACEUTICALS INC., to the extent it owns any rights in the mark, through common law or otherwise.

Trademark Records By Country plus Limitations, Disclaimers and Associations

Owner	Trademark	Country	Appl. Date	, No.	Status	Agent
Client	File Reference	Next Renewal Due	Reg. Date	, No.	Sub Status	Supervisor
Australia						
BioDelivery Sciences International, Inc.	BEMA	Australia	Nov 4 2004	1028272	Registered	
BioDelivery Sciences International, Inc.	23674	Nov 4 2024	Apr 25 2005	1028272		Maury Tepper
Class	5					
Goods	Polymer film, namely, adhesive bandages for topical application of pharmaceuticals					
Class	10					
Goods	Polymer film for use as an applicator for pharmaceuticals					
Brazil						
BioDelivery Sciences International, Inc.	BELBUCA	Brazil	Sep 24 2014	908340753	Pending	
					Published	Maury Tepper
Limitations	Published 10/21/2014 - should register by 1/2018					
Class	5					
Goods	Analgesics; Pharmaceutical preparations					
Canada						
BioDelivery Sciences International, Inc.	BELBUCA	Canada	Sep 16 2014	1694096	Registered	
		Mar 29 2031	Mar 29 2016	TMA932689		Maury Tepper
Class	5					
Goods	pharmaceutical preparations, namely, analgesics					
BioDelivery Sciences International, Inc.	ONSOLIS	Canada	Jun 26 2008	1,401,208	Registered	
		Dec 21 2026	Dec 21 2011	TMA814,466		Maury Tepper
Class	5					
Goods	Pharmaceutical preparations for the relief of pain containing fentanyl.					
BioDelivery Sciences International, Inc.	ONSOLIS Design	Canada	Nov 25 2014	1,704,395	Registered	
		Aug 18 2031	Aug 18 2016	TMA946,629		Maury Tepper
Class	5					
Goods	Pharmaceuticals, herbicides and veterinary products					
EUTM						
BioDelivery Sciences International, Inc.	BELBUCA	EUTM			Registered	
						Maury Tepper
Class	5					
Goods	Pharmaceutical preparations, namely analgesics.					
BioDelivery Sciences International, Inc.	BEMA	EUTM	Nov 4 2004	4097416	Registered	
BioDelivery Sciences International, Inc.	23663	Nov 4 2024	Oct 11 2007	4097416		Maury Tepper
Class	5					
Goods	Polymer film for use as an applicator for pharmaceuticals.					
BioDelivery Sciences International, Inc.	BIOGEODE	EUTM	Mar 5 2004	3693009	Allow to lapse	
BioDelivery Sciences International, Inc.	23661	Mar 5 2014	Jul 27 2005	3693009		Maury Tepper
Class	3					
Goods	Personal care products, including shampoos, conditioners, soaps, fragrances and cosmetics					
Class	5					
Goods	Pharmaceuticals, nutraceuticals, nutraceutical and nutritional foods, beverages, and dietary supplements; but not including fermented milk products					
BioDelivery Sciences International, Inc.	BIORAZYME	EUTM	Dec 9 2003	3574738	Allow to lapse	
BioDelivery Sciences International, Inc.	23662	Dec 9 2013	May 2 2005	3574738		Maury Tepper
Class	5					
Goods	Pharmaceuticals, enzymes for medical and veterinary purposes, enzyme formulations, veterinary preparations.					
Japan						
BioDelivery Sciences International, Inc.	BEMA	Japan	Nov 25 2004	107883	Pending	
BioDelivery Sciences International, Inc.	23664					Maury Tepper
Class	5					
Goods	Bioerodible polymer film capable of adhering to tissue surface of buccal mucosa for drug delivery					

Onsolis

Class 10
Goods

Mexico

BioDelivery Sciences International, Inc. **BELBUCA** Mexico Registered

Maury Tepper

Class 5
Goods Pharmaceutical preparations, namely analgesics.

BioDelivery Sciences International, Inc. **ONSOLIS** Mexico Jun 26 2008 943691 Registered

BioDelivery Sciences International, Inc. **Jun 26 2018 Jan 23 2009 1080660** Maury Tepper

Onsolis

Class 5
Goods pharmaceutical preparations for the relief of pain

BioDelivery Sciences International, Inc. **ONSOLIS Design** Mexico Oct 7 2008 966227 Registered

BioDelivery Sciences International, Inc. **Oct 7 2018 Feb 23 2009 1086584** Maury Tepper

Class 5
Goods pharmaceutical preparations for the relief of pain

Norway

BioDelivery Sciences International, Inc. **BELBUCA** Norway Registered

Maury Tepper

Class 5
Goods Pharmaceutical preparations, namely analgesics.

South Africa

BioDelivery Sciences International, Inc. **BELBUCA** South Africa Sep 18 2014 201425362 Pending

Maury Tepper

Switzerland

BioDelivery Sciences International, Inc. **BELBUCA** Switzerland Registered

Maury Tepper

Class 5
Goods Pharmaceutical preparations, namely analgesics.

United States of America

BioDelivery Sciences International, Inc. **BDSI** United States of America Apr 3 2008 77/439,193 Registered

BioDelivery Sciences International, Inc. **23736 Nov 4 2018 Nov 4 2008 3,527,341** Maury Tepper

BDSI

Limitations Declaration of Use accepted November 15, 2014
Class 42
Goods pharmaceutical research and development

BioDelivery Sciences International, Inc. **BELBUCA** United States of America Mar 28 2014 86235385 Registered

Apr 26 2026 Apr 26 2016 4946787 Maury Tepper

Class 5
Goods pharmaceutical preparations, namely, analgesics

BioDelivery Sciences International, Inc. **BEMA** United States of America Sep 28 2007 77/291,656 Registered

BioDelivery Sciences International, Inc. **23675 May 19 2019 May 19 2009 3,623,813** Maury Tepper

BEMA

Class 5
Goods Pharmaceutical preparations in the form of mucoadhesive polymer films for the treatment of pain; Opioid analgesic preparations for the treatment of pain

BioDelivery Sciences International, Inc. **BEMA** United States of America May 25 2004 78/424,675 Registered

BioDelivery Sciences International, Inc. **23676 Jul 22 2018 Jul 22 2008 3,473,621** Maury Tepper

BEMA

Class 5
Goods Polymer film, namely, adhesive bandages for topical application of pharmaceuticals
Class 10
Goods Drug delivery system using a polymer film applicator for delivery of pharmaceuticals

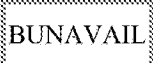
BioDelivery Sciences International, Inc. **BIODELIVERY SCIENCES & Design** United States of America Apr 8 2014 86245531 Registered

Jun 23 2025 Jun 23 2015 4761530 Maury Tepper


BIODELIVERY SCIENCES & Design

Class 5


Goods Pharmaceutical preparations for the treatment and prevention of pain
Class 42
Goods Research and development and consultation related thereto in the field of pharmaceutical preparations and substances
Class 44
Goods Providing health information

BioDelivery Sciences International, Inc. **BUNAVAIL** United States of America Feb 15 2013 85851211 Registered
Oct 28 2024 Oct 28 2014 4629312 Maury Tepper 

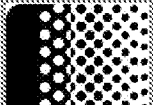
Class 5
Goods Pharmaceutical preparations for the treatment of chemical addictions

BioDelivery Sciences International, Inc. **BUNAVAIL Design** United States of America Jun 3 2014 86299111 Registered
Jun 16 2025 Jun 16 2015 4757448 Maury Tepper 

Class 5
Goods Pharmaceutical preparations for the treatment of chemical addictions

BioDelivery Sciences International, Inc. **ONSOLIS** United States of America Aug 16 2006 78/953,589 Registered
BioDelivery Sciences International, Inc. **23603** **Dec 8 2019 Dec 8 2009 3723904** Maury Tepper 

Class 5
Goods pharmaceutical preparations for the relief of pain

BioDelivery Sciences International, Inc. **ONSOLIS Design** United States of America Sep 9 2008 77565249 Registered
BioDelivery Sciences International, Inc. **Jun 15 2020 Jun 15 2010 3803937** Maury Tepper 

Class 5
Goods pharmaceutical preparations for the relief of pain

WIPO

BioDelivery Sciences International, Inc. **BELBUCA** WIPO Sep 16 2014 A0045067 Registered
Sep 16 2024 Sep 16 2014 932689 Maury Tepper

Class 5
Goods Pharmaceutical preparations, namely analgesics.